

A SYSTEM AND METHOD FOR THE HOLOGRAPHIC DEPOSITION OF MATERIAL**ABSTRACT**

An apparatus and method for hologram induced deposition of material for use in the formation of three-dimensional structures is described. An electromagnetic energy source may be directed in the form of a hologram to a process chamber with a medium. The medium may be an organometallic gaseous medium. The hologram may induce the medium to form a solid structure associated with the shape of the hologram. The pressure of the gaseous medium may range from subatmospheric to greater than 100 psi. Alternatively, the medium may be a liquid polymer, a solid particle, or others. The hologram may be formed with an LCD panel or other means. Further, a holographic movie may be projected into one or more mediums to form complex three-dimensional structures.